



EMBRAPA

Empresa Brasileira de Pesquisa Agropecuária

Vinculada ao Ministério da Agricultura

Centro Nacional de Pesquisa de Seringueira e Dendê - CNPSD

BIBLIOGRAFIA DE TECNOLOGIA DO LÁTEX E DA BORRACHA DE SERINGUEIRA

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BIBLIOGRAFIA DE TECNOLOGIA DO LÁTEX E DA BORRACHA DE SERINGUEIRA

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APRESENTAÇÃO

A instituição do Programa de Incentivo à Produção de Borracha Natural - PROBOR, em 1972, determinou a necessidade de se estruturar e intensificar as ações de pesquisa com seringueira no país, visando promover o suporte tecnológico ao desenvolvimento dos seringais.

Como decorrência desse Programa, a Superintendência da Borracha - SUDHEVEA e Empresa Brasileira de Pesquisa Agropecuária - EMBRAPA firmaram convênio que resultou na implantação do Centro Nacional de Pesquisa de Seringueira - CNPSe, em 1975 e que passou, a partir de 1980, a coordenar também as pesquisas com dendê, tendo sua denominação alterada para Centro Nacional de Pesquisa de Seringueira e Dendê - CNPSD.

Ao longo dos últimos 14 anos, o CNPSD foi acumulando informações tecnológicas relativas aos aspectos agronômicos da cultura da seringueira e, principalmente, uma considerável gama bibliográfica referente a tecnologia do látex e da borracha da espécie *Hevea brasiliensis* Mull. Arg., que é a única espécie explorada em larga escala.

Dessa forma, a EMBRAPA, através do CNPSD, sediada em Manaus, tem a grata satisfação de colocar à dis

posição dos usuários um considerável acervo bibliográ
fico relativo a borracha natural e látex da seringuei
ra, pelo que nos colocamos ao inteiro dispor dos leitoo
res quanto a falhas e críticas construtivas ao presente
trabalho.

Erci de Moraes

Chefe do CNPSD/EMBRAPA

INTRODUÇÃO

Os povos que habitavam a América Central e os índios da Amazônia utilizavam a borracha extraída de plantas nativas na produção de inúmeras utilidades, já muito antes da descoberta do Continente americano. As primeiras referências sobre borracha feitas por historiadores e naturalistas que aportaram à região, entretanto, limitavam-se simplesmente a mencionar a existência desse prodigioso material, indicando vagamente algumas de suas aplicações.

Foi somente pelos meados do século XVIII que apareceu o primeiro estudo com caráter científico, sobre borracha de Hevea, feito pelo naturalista francês Charles Marie de la Condamine. A borracha, nesses idos, era, na Europa, considerada apenas mera curiosidade, não se vislumbrando maiores perspectivas de aplicação tecnológica, apesar de tentativas feitas por pioneiros como Priestley, em 1770 e MacIntosh, em 1820, de dar à mesma aplicação prática. Deve-se ter presente que a borracha, no estado natural, apresenta propriedades deficientes de resistência à ação deletéria dos agentes externos como luz, calor, umidade, oxigênio, que a despolimerizam e a oxidam, tornando-a pegajosa e de formável.

Em 1839, dois notáveis tecnologistas, trabalhando com independência, Goodyear nos Estados Unidos da América e Hancock na Grã-Bretanha, descobriram o processo fundamental de vulcanização que, em última análise, é uma reação de adição de enxofre aos duplos enlaces da estrutura macromolecular do poliisopreno, a principal identidade química que compõe a borracha natural. Esta descoberta, que constitui um marco na evolução da economia do setor, abriu novos e limitados horizontes de aplicação para a borracha como matéria-prima para a manufatura de utilidades indispensáveis e imprescindíveis na vida moderna.

A descoberta da vulcanização, através da qual a borracha se torna menos deformável e mais resistente à ação dos agentes naturais de degradação, coincidiu com a descoberta do motor de explosão interna, que marcou o início da era da motorização na segunda metade do século passado, abrindo à borracha um imenso campo de aplicação através da demanda crescente de pneumáticos e de câmaras de ar. O consumo de borracha expandiu-se com tal rapidez, que a produção pela exploração de plantas silvestres nas regiões tropicais úmidas, já não era capaz de suprir as demandas em vertiginosa expansão.

Em fins do século XIX, o explorador inglês H. A. Wickham, a pedido do diretor do Jardim Botânico de Kew, coletou no planalto de Santarém e embarcou para

Londres 70.000 sementes da espécie *Hevea brasiliensis* Mull. Arg. que, semeadas, produziram cerca de 2.000 mudas as quais, transportadas em seguida para o Ceilão (Sri Lanka), foram definitivamente plantadas na Estação Experimental de Paradenya e deram origem às sementes de fundação que permitiram o desenvolvimento das extensas plantações de *Hevea* em todo o Extremo Oriente. Esse evento marcava o fim da economia da borracha extrativa e o início do ciclo da borracha de plantação.

A borracha transformou-se rapidamente em matéria-prima da maior relevância e imprescindível na tecnologia moderna. A sua origem agrícola, todavia, pressupõe condições climáticas muito especiais, limitadas a uma faixa relativamente pequena do trópico úmido, faixa essa, naqueles idos, dominada por potências colonizadas européias, principalmente a Grã-Bretanha, França e Holanda. A borracha tornou-se, na verdade, monopólio das aquelas potências. Esse aspecto se transformou em poderoso estímulo a que se procurasse a independência dos monopólios produtores, através da obtenção de borracha independentemente das árvores, nas retortas dos laboratórios e nas câmaras reatoras das usinas, pela síntese química.

A constituição da borracha já fora perfeitamente determinada na segunda metade do século passado, como sendo um polímero do isopreno. A química dos estereoisômeros, todavia, ainda não se achava suficientemente desenvolvida e conhecida naqueles idos, para permitir a

correta compreensão da disposição espacial do isopreno na macromolécula da borracha. Sempre que, partindo do isopreno, se tentava produzir borracha por síntese, o material obtido carecia de propriedades técnicas capazes de permitir a utilização prática. Na verdade, a simples polimerização do isopreno pelos métodos convencionais leva a produção final de uma mistura de estereoisômeros, enquanto a estrutura da borracha natural apresenta o poliisopreno com a fórmula estérica única e bem definida como poliisopreno-cis-1, 4 isotático.

Se as primeiras tentativas de produzir borracha por síntese haviam fracassado, essas tentativas, no entanto, tiveram mérito de abrir um imenso campo de conhecimento, permitindo a produção de inúmeros materiais com propriedades semelhantes às da borracha e que, por isso mesmo, embora impropriamente, receberam o nome de "borracha sintética".

Borracha sintética na acepção comum é apenas um sucedâneo da borracha natural embora apresentando fórmula química completamente diferente. Foi somente em 1955, que a estrutura estereoquímica da borracha natural foi retratada com fidelidade pela síntese do poliisopreno-cis-1,4 isotático, com 98% de pureza, pelo professor Natta, da Universidade de Milão. Num sentido rigoroso da palavra, essa é a borracha sintética. O conceito moderno de borracha, todavia, é muito amplo. A borracha natural e todos os materiais sintéticos a ela

semelhantes, isto é, todos os produtos macromoleculares com propriedades plásticas e elásticas (sobrepondo-se as últimas às primeiras), são genericamente englobados no grupo dos "elastômeros". A borracha natural é, pois, apenas um entre os inúmeros elastômeros conhecidos e largamente produzidos e consumidos.

A borracha natural, embora, ainda, material dos mais importantes, vem perdendo terreno em favor dos produ^{to}s sintéticos. A relação de consumo atual entre borracha e sucedâneos sintéticos pode ser, redondamente fixada em 1/3:2/3, isto é, do total dos elastômeros consumidos, apenas um terço do volume se configura como borracha natural, enquanto dois terços como borrachas sintéticas.

A vertiginosa evolução da borracha na economia mundial, desde as primeiras referências no século XVI até os nossos dias, vem acompanhada por um não menos estupendo e criativo trabalho de pesquisa técnico-científica. Aliás, foi exatamente essa criação técnico-científica que condicionou a conquista de espaços de aplicação cada vez mais diversificados, pela produção de utilidades em quantidades cada vez maiores e de desempenho cada vez mais eficiente.

A bibliografia referente aos vários aspectos relacionados aos elastômeros em geral e à borracha natural em particular, é hoje incalculável. O Centro Nacional de Pesquisa de Seringueira e Dendê (CNPSP), da Empresa

Brasileira de Pesquisa Agropecuária (EMBRAPA), local^uizado em Manaus, Amazonas, dispõe de um valioso acervo bibliográfico versando sobre a borracha natural, espe^ccificamente sobre a borracha da espécie *H. brasiliensis* Müll. Arg., aliás, a única espécie atualmente explora^dda em grande escala com vistas à produção econômica de borracha natural.

A presente publicação apresenta em ordem alfabética, toda a bibliografia existente na Biblioteca do CNPSD pertinente à borracha e látex de seringueira, reunindo sob itens específicos, os diversos assuntos correlatos, de modo a facilitar e simplificar a pesquisa bibliográfica.

Nesse ordenamento alfabético admitiu-se a divisão da bibliografia em quatro classes amplamente genéricas: a) a que inclui todos os assuntos histó^ricos e sócio-econômicos relacionados ao látex e borra^ccha; b) a que abrange os assuntos relacionados à trans^formação do látex de seringueira-matéria-prima agrícola em matéria-prima de indú^stria, a borracha seca e os lá^tices concentrados e especⁱais, incluindo toda a pro^blemática envolvida como padronização, tipos, padrões de qualidade, métodos analíticos, embalagem, conservação, secagem, sistemas de coagulação e preservação, proces^ssamento, instrumental, maquinaria, instalações e outros; c) a que se relaciona à borracha e/ou ao látex sob um as^pecto puramente acadêmico, científico, incluindo-se en^t

tre outros, a bibliografia que diz respeito à estrutura química e físico-química da borracha e do látex, aos mecanismos de sua biossíntese, às propriedades físicas e químicas, aos aspectos coloidais e outros; d) a que engloba os assuntos relacionados ao processamento da matéria-prima de indústria, a borracha e/ou os látexes concentrados e especiais, visando a produção de artigos e utilidades através de processos de transformação industrial. Contemplam-se nesta classe, também, os assuntos relacionados aos insumos utilizados na indústria de artefatos de borracha, aos sistemas de produção, equipamentos, instalações e outros.

Os critérios adotados na presente publicação, podem ser passíveis de crítica e até um outro enfoque, talvez, fosse mais consentâneo. Todavia, a preocupação dos autores não foi outra senão a de facilitar, ao usuário, a pesquisa bibliográfica geralmente demorada e custosa pela dispersão dos temas em dezenas e dezenas de publicações especializadas. Os autores sentir-se-ão plenamente recompensados se esse objetivo de alguma forma venha a ser atingido.

A coleta das informações, datilografia e correções do texto, contou com a colaboração dos funcionários do SID-CNPSD, especialmente das bibliotecárias Walda Corrêa dos Santos e Palmira Costa Novo Sena, pelo que os autores expressam sinceros agradecimentos.

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